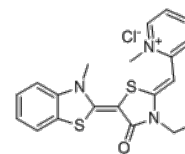


Product Name : YM-1
Cat. No. : PC-62198
CAS No. : 409086-68-6
Molecular Formula : C₂₀H₂₀ClN₃OS₂
Molecular Weight : 417.97
Target : Heat Shock Protein (HSP)
Solubility : 10 mM in DMSO



Biological Activity

YM-1 is a close derivative of MTK-077 that allosterically promotes **Hsp70** binding to unfolded substrates, specifically binds to Hsp70 with K_d of 4.9 μM.

YM-1 enhances client protein ubiquitination and polyQ AR degradation.

YM-1 alleviates toxicity in a Drosophila model of spinobulbar muscular atrophy (SBMA).

YM-1 also disrupts the Hsp70-Bag3 interaction with IC₅₀ of 5 μM.

References

Wang AM, et al. *Nat Chem Biol*. 2013 Feb;9(2):112-8.

Morishima Y, et al. *Biochemistry*. 2011 Aug 23;50(33):7146-56.

Colvin TA, et al. *Cancer Res*. 2014 Sep 1;74(17):4731-40.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com